

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/567122	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 13:50
S2	2	136/243-265.ccls. and "410" adj stainless	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:29
S3	11	136/243-265.ccls. and stainless with "410"	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:29
S5	28	136/243-265.ccls. and stainless with (TEC CTE coefficient)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:32
S6	244	136/243-265.ccls. and (TEC CTE thermal adj expansion) with (match\$3 "same")	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:37
S7	67	136/243-265.ccls. and (TEC CTE thermal adj expansion) with (match\$3 "same") with (semiconductor active photoactive photovoltaic CIGS CIS chalcopyrite)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:38
S8	9	136/243-265.ccls. and (TEC CTE thermal adj expansion) with (match\$3 "same") with (CIGS CIS chalcopyrite)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:39
S9	401	136/243-265.ccls. and (TEC CTE thermal adj expansion) with substrate	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:40
S10	18	136/243-265.ccls. and (TEC CTE thermal adj expansion) with substrate with (CIGS CIS chalcopyrite)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:40
S11	16	136/243-265.ccls. and ("430" "436") adj stainless	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:45

S12	484	stainless adj steel same (alumium adj oxide alumina "Al. sub.2.O.sub.3") same alkali	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:58
S13	2254	stainless adj steel same (alumium adj oxide alumina "Al. sub.2.O.sub.3") same (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:58
S14	1076	(stainless adj steel) same (alumium adj oxide alumina "Al. sub.2.O.sub.3") with (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:58
S15	11	(stainless adj steel) same (alumium adj oxide alumina "Al. sub.2.O.sub.3") with (enrich\$3 dop\$3) with (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 14:59
S16	169	(stainless adj steel) and (alumium adj oxide alumina "Al. sub.2.O.sub.3") with (enrich\$3 dop\$3) with (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:00
S17	0	("410" "430" "436") adj2 (stainless adj steel) and (alumium adj oxide alumina "Al. sub.2.O.sub.3") with (enrich\$3 dop\$3) with (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:00
S18	0	("410" "430" "436") with (stainless adj steel) and (alumium adj oxide alumina "Al. sub.2.O.sub.3") with (enrich\$3 dop\$3) with (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:01

S19	16	("410" "430" "436") with (stainless adj steel) and (oxide dielectric) with (enrich \$3 dop\$3) with (lithium Li sodium Na potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:02
S20	0	(solar adj cell photovoltaic photelectric) and (stainless adj steel) with ("410" "430" "436")	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:05
S21	0	(solar adj cell photovoltaic photelectric) and (stainless adj steel) with (CTE TEC thermal adj expansion expansion adj coefficient)	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:05
S22	838	(solar adj cell photovoltaic photelectric) and (stainless adj steel)	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:05
S23	0	(solar adj cell photovoltaic photelectric) and (stainless adj steel) with grade	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:05
S24	7	(solar adj cell photovoltaic photelectric) and steel with (CTE TEC thermal adj expansion expansion adj coefficient)	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:06
S25	86	136/243-265.ccls. and ("410" "430" "436") with steel	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:07
S26	52	136/243-265.ccls. and ("410" "430" "436") near3 steel	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:07
S27	34	136/243-265.ccls. and ("410" "430" "436") near2 steel	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:08

S28	946	(SUS adj ("410" "430" "436")) or ((steel) near2 ("410" "430" "436")) and 136/243-265.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:12
S29	506	S28 and (alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5")	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:15
S30	280	S28 and (alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5")	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:15
S31	32	S28 and (alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5") with (alkali sodium Na lithium Li potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:19
S32	248	S30 not S31	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:23

S33	344	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5") with (alkali sodium Na lithium Li potassium K)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:24
S34	14	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5") with (alkali sodium Na lithium Li potassium K) with (dop\$3 enrich\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:25
S35	1	("5986205").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/14 15:29
S36	275	(alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5") with (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:31

S37	6	(alumina aluminum adj oxide "Al.sub.2.O. sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2. O.sub.5" niobium adj \$4oxide "Nb.sub.2.O. sub.5") with (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) same (steel stainless SUS)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/14 15:32
S38	2	(alumina aluminum adj oxide "Al.sub.2.O. sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2. O.sub.5" niobium adj \$4oxide "Nb.sub.2.O. sub.5") with (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) same (steel stainless SUS)	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:34
S39	90	(alumina aluminum adj oxide "Al.sub.2.O. sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2. O.sub.5" niobium adj \$4oxide "Nb.sub.2.O. sub.5") with (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3)	EPO; JPO; DERWENT	OR	ON	2011/03/14 15:47
S40	1	(lithium adj Li) with (dop\$3 enrich\$3) with (niobium adj pentoxide "Nb.sub.2. O.5")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 15:55

S41	1	(lithium adj Li) with (dop\$3 enrich\$3) with (niobium adj pentoxide "Nb.sub.2. O.sub.5")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 15:55
S42	27	(lithium Li) with (dop \$3 enrich\$3) with (niobium adj pentoxide "Nb.sub.2. O.sub.5")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 15:55
S43	7	(lithium Li) with (dop \$3 enrich\$3) with (niobium adj pentoxide "Nb.sub.2. O.sub.5") and (steel stainless)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 15:56
S44	2754	"429".clas. and (thermal adj expansion expansion adj coefficient CTE TEC)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 16:25
S45	376	"429".clas. and (thermal adj expansion expansion adj coefficient CTE TEC) same steel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 16:26
S46	193	"429".clas. and (expansion adj coefficient CTE TEC) same steel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 16:27
S47	56	"429".clas. and (expansion adj coefficient CTE TEC) with minimiz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 16:29
S48	89	"429".clas. and ("410" "430" "436") near2 steel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 16:31

S49	20	"429".clas. and ("410" "430" "436") near2 steel with (collector electrode contact)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/14 16:34
S50	1	(US-5112704-\$).did.	USPAT	OR	ON	2011/03/14 16:37
S51	1	("5187033").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/14 16:38
S52	1	("5994163").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/14 17:14
S53	0	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O. sub.3") and (alkali sodium Na) with (dop \$3 enrich\$3)	EPO; JPO; DERWENT	OR	ON	2011/03/15 08:48
S54	1	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O. sub.3") with (alkali sodium Na)	EPO; JPO; DERWENT	OR	ON	2011/03/15 08:49
S55	75	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O. sub.3") and (alkali sodium Na) with (dop \$3 enrich\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/15 08:50
S56	78	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O. sub.3") with (alkali sodium Na)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/15 08:51
S57	24	136/243-265.ccls. and (alumina aluminum adj oxide "Al.sub.2.O. sub.3") with (insulat \$3 dielectric) and (insulat\$3 dielectric) with (alkali sodium Na)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/15 09:11
S58	7	136/243-265.ccls. and (CIGS CIS copper adj indium chalcopyrite) and (insulat\$3 dielectric) with (enrich \$3 dop\$3) with (alkali Na sodium Li lithium K potassium)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/15 09:18



S59	3	136/243-265.ccls. and ("CuInSe.sub.2" "CuGaSe.sub.2" "CuInGaSe.sub.2" "CuInS.sub.2" "CuGaS.sub.2" "CuInGaS.sub.2") and (insulat\$3 dielectric) with (enrich\$3 dop\$3) with (alkali Na sodium Li lithium K potassium)	US-PGPUB; USPAT; USOCR	OR	ON	2011/03/15 09:20
S60	1	"JP 2007502536"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 09:21
S61	2838	(alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5") and (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 10:12
S62	786	(alumina aluminum adj oxide "Al.sub.2.O.sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2.O.sub.5" niobium adj \$4oxide "Nb.sub.2.O.sub.5") and (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) with (dielectric insulat\$3 oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 10:14

S63	786	(alumina aluminum adj oxide "Al.sub.2.O. sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2. O.sub.5" niobium adj \$4oxide "Nb.sub.2.O. sub.5") and (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) with (dielectric insulat\$3 oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 10:14
S64	648	(US-20110052989-\$ or US-20110052981-\$ or US-20110045346-\$ or US-20110033734-\$ or US-20110030451-\$ or US-20110024396-\$ or US-20110021970-\$ or US-20110017996-\$ or US-20110017975-\$ or US-20110015300-\$ or US-20110005591-\$ or US-20110005065-\$ or US-20110001352-\$ or US-20100330432-\$ or US-20100327811-\$ or US-20100317502-\$ or US-20100298131-\$ or US-20100292076-\$ or US-20100288348-\$ or US-20100285373-\$ or US-20100279566-\$ or US-20100276001-\$ or US-20100273644-\$ or US-20100266899-\$ or US-20100264496-\$ or US-20100261263-\$ ).did. or (US- 20100248028-\$ or US- 20100247381-\$ or US- 20100245973-\$ or US- 20100243427-\$ or US- 20100224861-\$ or US- 20100222621-\$ or US- 20100201655-\$ or US- 20100200418-\$ or US- 20100187471-\$ or US- 20100164436-\$ or US- 20100151683-\$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/03/15 10:15

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S65	648	S64 and (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) with (dielectric insulat\$3 oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 10:16
S66	53	S64 and (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) with (dielectric insulat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 10:17
S67	85	(alumina aluminum adj oxide "Al.sub.2.O. sub.3" titanium adj \$2oxide "TiO.sub.2" hafnium adj \$2oxide "HfO.sub.2" tantalum adj \$2oxide "Ta.sub.2. O.sub.5" niobium adj \$4oxide "Nb.sub.2.O. sub.5") and (alkali sodium Na lithium Li potassium K) near (dop\$3 enrich\$3) with (ZnO zinc adj oxide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 10:22

S68	54	(mikael near schuisky magnus near cedergren).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 11:07
S69	10	(mikael near schuisky magnus near cedergren).in. and expansion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 11:08
S70	5149	(mikael near schuisky magnus near cedergren).in. and (TEC CTE expansion)".clm"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 11:08
S71	4	(mikael near schuisky magnus near cedergren).in. and (TEC CTE expansion).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/03/15 11:09
S73	1	("5187033").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/22 15:14

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S72	1	(mikael near schuisky magnus near cedergren).in. and (TEC CTE expansion).clm.	USPAT; UPAD	OR	ON	2011/03/15 11:09
S74	234	((metal adj strip) and (TEC CTE expansion)).clm.	USPAT; UPAD	OR	ON	2011/03/23 10:10
S75	39	((metal adj strip) and (TEC CTE expansion near coefficient)).clm.	USPAT; UPAD	OR	ON	2011/03/23 10:10

3/ 28/ 2011 12:55:55 PM

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